

Serial No.: 10/646,183
PD020083
June 27, 2007

Customer # 24498

Remarks/Arguments

The Office Action mailed April 4, 2007 has been reviewed and carefully considered.

Claims 1 and 7 have been amended. Claims 1-12 are pending in this application.

Reconsideration of the above-identified application, as herein amended and in view of the following remarks, is respectfully requested.

Claims 1-12 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Tanaka (2003/0052841) in view of Wells (USP 5,371,515).

Independent claims 1 and 7 provide a method and device, respectively, for processing video picture data for display on a display device. The brightness of a pixel is controlled by at least one sub-field code with which the luminous element(s) are activated or inactivated for light output in small pulses corresponding to sub-fields in the video frame. The sub-fields have an assigned sub-field weight that is used to determine the length of time the pixels is to be activated during the particular sub-field. The video picture data is then transformed according to a retinal function before the dithering.

Through the use of the specific sub-field code for sub-field coding, where the sub-field weights in the sub-field organization are adapted to grow according to the inverse retinal function, a separate inverse transformation of the retinal function by means of look-up tables or algorithm, is avoided. This makes the process of the present principles much easier to implement than other solutions, with a significantly lower expenditure for such implementation.

The cited patent to Tanaka does not relate to plasma display technology, and as such, cannot possibly contemplate the features of the present principles. Notwithstanding

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the foregoing, Tanaka neither discloses nor suggests the use of sub-field weights for determining the length of time a pixel is activated during the sub-field. As such, Tanaka cannot render obvious the transforming aspect of independent claim 1 and 7.

Although the reference to Wells et al. does disclose the use of a retinal function for the dithering technique, Wells et al does not discuss the type of display for which it relates. Thus, all the problems associated with the pulse width modulation for light production are completely neglected in Wells et al.

Thus, the combination of Tanaka with that of Wells et al. completely fails to disclose or suggest the claimed sub-field aspects of the present principles. Thus, Tanaka, taken singly or in any combination with the teachings of Wells et al. fails to render the present principles obvious.

For at least the reasons cited above, the dependent claims 2-6 and 8-12 are believed to be allowable based on their respective dependencies from claims 1 and 7. Reconsideration and withdrawal of the rejection and early allowance on the merits is respectfully requested.

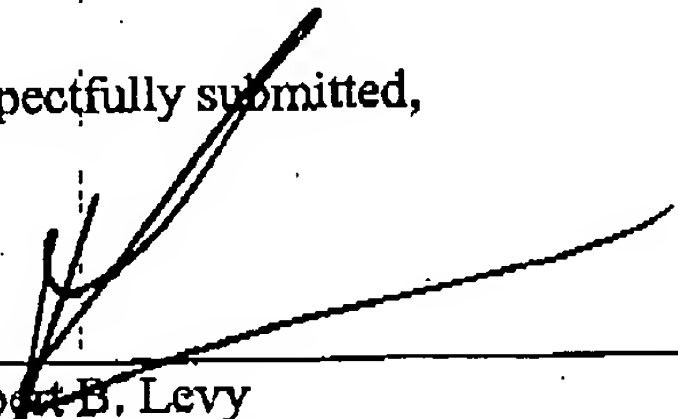
In view of the foregoing, Applicant respectfully requests that the rejections of the claims set forth in the Office Action of April 4, 2007 be withdrawn, that pending claims 1-12 be allowed, and that the case proceed to early issuance of Letters Patent in due course.

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It is believed that no additional fees or charges are currently due. However, in the event that any additional fees or charges are required at this time in connection with the application, they may be charged to applicant's representatives Deposit Account No. 07-0832.

Respectfully submitted,


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